51178-6006.WD DOCKETED TO CPI PATENT COOPERATION TREATY **⊠** Deadline Follow up From the INTERNATIONAL SEARCHING AUTHORITY ☐ Previously To: ☐ Transferred STEVEN M. GIOVANNETTI PERKINS COIE LLP NOTIFICATION OF TRANSMITTAL OF SEATTLE, WA 98111-1208 THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL DEC 262008 SEARCHING AUTHORITY, OR THE DECLARATION PERKINS COIE LLT (PCT Rule 44.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 577788006WO International filing date International application No. (day/month/year) 17 October 2008 (17.10.2008) PCT/US 08/80362 Applicant INNOZEN, INC. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Scarching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site. Authorized officer: Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Lee W. Young Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450

PCT Helpdesk: 571-272-4300 PCT OSP, 571-272-7774

Facsimile No. 571-273-3201

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: STEVEN M. GIOVANNETTI PERKINS COIE LLP P.O. BOX 1208 SEATTLE, WA 98111-1208 DEC 2 6 2008 PERKINS COIE LLP Applicant's or agent's file reference 577788006WO	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing (day/month/year) 2 2 DEC 2008 FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US 08/80362	International filing date (day/month/year) 17 October 2008 (17.10.2008)			
Applicant INNOZEN, INC.				
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively before the completion of the technical preparations for international Bureau as provided in Rules 90bis.1 and 90bis.3, respectively before the completion of the technical preparations for international Bureau of the International Searching Authority to the International preliminary examination report has been or is to be established. These comments to all designated Offices				
acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201 PCT OSP, 571-272-1774				

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

577788006WO	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/y	rear) (Earliest) Priority Date (day/month/year)				
PCT/US 08/80362	17 October 2008 (17.10.2008)	19 October 2007 (19.10.2007)				
Applicant INNOZEN, INC.						
This international search report has becaceurding to Article 18. A copy is being		ching Authority and is transmitted to the applicant u.				
This international search report consists	of a total of sheets.					
lt is also accompanied by a	a copy of each prior art document cited	in this report.				
1. Basis of the report						
a. With regard to the language, the	e international search was carried out of	n the basis of:				
the international app	lication in the language in which it was	s filed.				
a translation of the in a translation furnish	nternational application into ed for the purposes of international sear	which is the language of rch (Rules 12.3(a) and 23.1(b)).				
b. This international search a authorized by or notified to	report has been established taking into o this Authority under Rule 91 (Rule 43	account the rectification of an obvious mistake 3.6bis(a)).				
c. With regard to any nucleon	tide and/or amino acid sequence disci	losed in the international application, see Box No. 1.				
2. Certain claims were foun	d unsearchable (see Box No. 11).					
3. Unity of invention is lack	ing (see Box No. III).					
4. With regard to the title,						
the text is approved as sub	mitted by the applicant.					
the text has been established by this Authority to read as follows:						
ļ						
,						
5. With regard to the abstract,						
the text is approved as sub-						
the text has been established may, within one month from	ed, according to Rule 38.2(b), by this A m the date of mailing of this internation	uthority as it appears in Box No. IV. The applicant al search report, submit comments to this Authority.				
6. With regard to the drawings.						
a. the figure of the drawings to be published with the abstract is Figure No.						
as suggested by the a	applicant.					
as selected by this A	uthority, because the applicant failed to	suggest a figure.				
as selected by this Authority, because this figure better characterizes the invention.						
b. In none of the figures is to be	published with the abstract.					

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/80362

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A01N 25/02; A61K 9/12 (2008.04) USPC - 424/43					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed business 42442	y classification symbols)				
USPC - 424/43					
Domination and details to the second	autant that such dames and are to the deal to the	Galde cearched			
Documentation searched other than minimum documentation to the USPC 7 424/43, 435, 439, 440, 46, 466	exicni inai such documents are included in the	neius searcied			
Electronic data base consulted during the international search (name PubWEST (PGPB, USPT, EPAB, JPAB); Google; Google Scholar Search Terms Used: thin film, film layer, film strip, composition, accavity, powder matrix, coating, auxiliary composition, absorption a	tive ingredient, effervescent, compound, diss	olve, weight ratio, craf			
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category* Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.			
[0008], para [0012], para [0023], para [0045], para [0	US 2006/0210610 A1 (Davidson et al.) 21 September 2006 (21.09.2006) ? [abstract], para [0008], para [0012], para [0023], para [0045], para [0025], para [0047], para [0043], para [0040], para [0046], para [0056], para [0109], para [0127], para [0019], para [0022], para [0041], para [0027]				
Y US 2001/0005677 A1 (McGinity et al.) 05 July 2001 [0057], para [0075]-[0076]	(05.07.2001) - para [0019]-[0020], para	1-23, 29-32			
X US 2007/0087036 A1 (Durschlag et al.) 19 April 200	7 (19.04.2007) - para [0039], [abstract],	24-28			
— para [0054], para [0033], para [0041], para [0015], [0	tialm 29], para (0012], para (0100)	17, 19, 21			
Y US 2007/0122455 A1 (Myers et al.) 31 May 2007 (3 [0119], para [0124], para [0122]	US 2007/0122455 A1 (Myers et al.) 31 May 2007 (31.05.2007) - para [0105], para [0103], para [0119], para [0124], para [0122]				
A US 2004/0247649 A1 (Pearce et al.) 09 December 2	US 2004/0247649 A1 (Pearce et al.) 09 December 2004 (09.12.2004)				
A US 2004/0136923 A1 (Davidson) 15 July 2004 (15.0					
	•				
Further documents are listed in the continuation of Box C.					
 Special categories of cited documents: "I later document published after the international filing date or priori date and not in conflict with the application but cited to understant to be of particular relevance. 					
to be of particular relevance "E" earlier application or patent but published on or after the internation filing date	claimed invention cannot be ered to involve an inventive				
"L" document which may throw doubts on priority claim(s) or which cited to establish the publication date of another citation or oth special reason (as specified)	claimed invention cannot be				
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means means considered to involve an inventive step when the docume combined with one or more other such documents, such combine being obvious to a person skilled in the art					
"P" document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed					
Date of the actual completion of the international search	Date of mailing of the international sear	•			
08 December 2008 (08.12.2008) 22 DEC 2008					
Name and mailing address of the ISA/US Authorized officer:					
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	Lee W. Young				
Facsimile No. 571-273-3201	PCT Helpdosk: 571-272-4300 PCT OSP: 571-272-7774				

•		DOCKETED TO CPI		
PATE From the	NT COOPERATION TREA	TY Deadline		
INTERNATIONAL SEARCHING AUTHORITY	· ·	57778-8006-WO Follow up 5M6/AG Previously		
To: STEVEN M. GIOVANNETTI PERKINS COIE LLP P.O. BOX 1208 SEATTLE, WA 98111-1208	INTERNATI	PCT 8-19-09 Abandoned Transferred Dedocketed ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		
DEC 26	3 2008	(1 C1 Kuic 4303.1)		
PERICINS C	OIE LLF Date of mailing (day/month/year)	22 DEC 2008		
Applicant's or agent's file reference 577788006WO	FOR FURTHER A	CTION See paragraph 2 below		
International application No. Interna	ntional filing date (day/month/year)	Priority date (day/month/year)		
PCT/US 08/80362 17 O	ctober 2008 (17.10.2008)	19 October 2007 (19.10.2007)		
Applicant INNOZEN, INC. 1. This opinion contains indications relating to Box No. 1 Basis of the opinion	the following items:			
Box No. II Priority	opinion with regard to novelty, inventiv	e step and industrial applicability		
Box No. IV Luck of unity of invention				
Box No. V Reasoned statement ut citations and explanate	nder Rule 43 <i>bis</i> .1(a)(i) with regard to novions supporting such statement	relty, inventive step or industrial applicability;		
Box No. VI Certain documents cit	ed	·		
Box No. VII Certain defects in the	international application	i ·		
Box No. VIII Certain observations of	on the international application			
 FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 				
Mail Stop PCT, Attn: ISA/US	of completion of this opinion December 2008 (08.12.2008)	Authorized officer: Lee W. Young PCT Helpdask: 571-272-4300 PCT OSP: 571-272-7774		

International application No.

PCT/US 08/80362

Box	No. I	Basis of this opinion
I.		egard to the language, this opinion has been established on the basis of:
	\boxtimes	the international application in the language in which it was filed.
		a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.		This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3.		egard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been shed on the basis of:
	a. typ	e of material
		a sequence listing
	Ī	table(s) related to the sequence listing
	b. for	mat of material
	Г	on paper
	一百	in electronic form
	c. tin	ne of filing/furnishing
	Г	contained in the international application as filed
	一百	filed together with the international application in electronic form
	F	furnished subsequently to this Authority for the purposes of search
	_	
4.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5.	Additi	onal comments:
	•	

International application No. *

PCT/US 08/80362

. Statement			
Novelty (N)	Claims	1-32	YES
• • • • • • • • • • • • • • • • • • • •	Claims	None	NO
Inventive man (IS)	Cl-i	None	YES
Inventive step (IS)	Claims Claims	1-32	NO NO
Industrial applicability (IA)	Claims	None	YES
	Claims	110110	NO
sech compositions with active ingredient se the teachings of Durschlag to obtain a used as effervescent agents, and Durschlag further teaches per claim 25, Durschlag further teaches per claim 26, Durschlag further teaches per claim 28, Durschlag further teaches per claim 28, Durschlag teaches a medive agent incorporated therein (para (0 abstract)). Although Durschlag does no pach that the powder matrix can contain one skilled in the ordinary art to utilize appreciate that it is known in the art that it laims 1-16, 18, 20, 22-23, 29-30 lack and al. (hereinafter "Davidson") in view of Us per claim 1, Davidson teaches a thin for a film layer (para [0008]), of wherein the film layer includes at least and a coaling applied to at least one significant contents.	teach c) when s containing be the invention a schlag allows as wherein the thod of makin (033)), and but to specifically to nutritional sughe teachings of carbonates of inventive steps (2001/0006) tim compositione active ingular to the film of the film in the containing the teachings of the film of the fi	ein the coating comprises at least one effervescent compicarbonates, and it would have been obvious to one skill as claimed because a skilled artisan would appreciate the multiple active ingredients in the edible film compositions active ingredient is present in the film layer (para [0033]) active ingredient is present in the coating (para [0041] - g an effervescent thin film composition comprising: proving the powder matrix coating on one or more surface each admixing a powder matrix with an effervescent complements including bicarbonates (para [0015], [0041]). of Durschlag to obtain the invention as claimed because can be used in compositions to produce an effervescent punder PCT Article 33(3) as being obvious over US 200 and for administering an active ingredient ([abstract]) comparedient (para [0012], [0023]);	ed in the ordinary art to at bicarbonates can also s.). medicant). ding a film layer having an es of the film layer apound, Durschlag does it would have been obvious effect in products 16/0210610 A1 to Davidsoprising:

International application No.

PCT/US 08/80362

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V.2 Citations and Explanations:

McGinity teaches effervescent films containing active ingredients that are suitable to be used in pharmaceutical applications (para [0019]-10020]).

Although Davidson and McGinity do not specifically teach wherein d) wherein the coating comprises at least one effervescent compound, it would have been obvious to one skilled in the ordinary art to combine the teaching of Davidson and effervescent films as taught by McGinity to obtain the invention as claimed because a skilled artisan would appreciate that edible films have been used in different applications to deliver agents, which would include a composition containing an effervescent compound as effervescent compounds could be used in combination with active ingredients as taught by McGinity.

As per claim 2, Davidson further teaches wherein the coating is a powder matrix (para [0008]).

As per claim 3, Davidson further teaches wherein the composition is an edible film strip that rapidly dissolves in an oral cavity and the amount of moisture in the powder matrix is about .001 to 10 wt% (para [0045] - "The dry powder matrix will normally contain a minor amount of retained or bound water or other liquid, typically less than about ten percent by weight.").

As per claim 4, Davidson further teaches wherein the composition dissolves in about 5 to 30 seconds upon contact with the oral cavity (para [0033]).

As per claim 5, Davidson further teaches wherein the film strip weight about 10 to 80 mg per strip (para [0025] - "A film in accordance with the present invention is generally of a size adapted such that the film is fast dissolving. The weight per strip may vary depending on the application. Generally, the strip may have any effective weight. For human consumption, for example, certain effective weights of the strip include from about 10 to about 400 mg, about 20 to about 200 mg, about 30 to about 100 mg and about 50 mg.").

As per claim 6, Davidson further teaches wherein particle size of the powder matrix is about 10 to 400 mesh (para [0047] - "The size of particulate in the powder matrix can vary as desired, but is preferably in the range of 10 mesh to 400 mesh or finer, preferably 40 mesh to 300 mesh.").

As per claim 7 Davidson further teaches wherein the active ingredient is present in the coating (para [0012]).

As per claim 8, Davidson further teaches further comprising an auxiliary composition selected from the group consisting of a bulking agent (para [0043]).

As per claim 9, Davidson further teaches wherein the film layer comprises a polymer (para [0033]) and the powder matrix coating comprises an absorption agent (para [0040] - auxiliary composition) and a flavoring agent (para [0043]).

As per claim 10, Davidson (urther teaches wherein the film layer comprises pectin (para [0033]) and the powder matrix comprises starch (para [0040], [0046]).

been skilled ature 1 or

International application No. PCT/US 08/80382

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:
Box V.2 Citations and Explanations:

As per claim 12, McGinity further teaches wherein the flavoring agent gives a flavor of orange (para [0057] . citrus oil).

As per claim 13, Davidson further teaches wherein the active ingredient comprises a pharmaceutical ingredient (para [0056] - "In certain embodiments the compositions and films of the present invention may contain at least one ingredient or agent that is pharmaceutically

As per claim 14, Davidson further teaches wherein the pharmaceutical ingredient is useful for treating diabetic (para [0109] - diabetes agents).

As per claim 15, Davidson further teaches wherein the pharmaceutical ingredient is selected from a group consisting of an active form of tadalafil (para [0127]).

As per claim 16, Davidson further teaches wherein the active ingredient comprises a nutritional supplement (para [0109] . vitamin supplements).

As per claim 18, Davidson further leaches further comprising Vitamin B12 (para [0109] . vitamin B family).

As per claim 20, Davidson further teaches wherein the nutritional supplement is vitamin (para [0109]).

As per claim 22, Davidson further teaches wherein the active ingredient comprises Vitamin C (para [0109]).

As per claim 23, Davidson further teaches wherein the composition is edible (para [0008]) and dissolves in an oral cavity of a subject to which the composition is administered (para [0019]).

As per claim 29, McGinity further teaches effervescent films wherein an alkaline agent causing effervescence such as bicarbonates are incorporated (para [0075]-[0076]), and Davidson further teaches wherein the active ingredient is a stimulant (para [0109]). A skilled artisan would appreciate that sodium bicarbonate can be used as an effervescent compound because bicarbonates can be used as to produce an effervescent effect as taught by McGinity.

As per claim 30, Davidson further teaches wherein the thin film composition is a film strip (para [0022] - "Any effective edible "thin film" or "strip" may be used in accordance with the present invention.").

Claim 27 lacks an Inventive step under PCT Article 33(3) as being obvious over Durschlag In view Davidson.

As per claim 27, Durschlag further teaches wherein the coating is a powder matrix (para [0041]. Durschlag does not specifically teach the effervescent compound is sodium bicarbonate, however, Durschlag does teach bicabonates as part of the composition in the films (para [0015]). A skilled artisan would appreciate that bicarbonates can be used as effervescent agents. However, Durschlag does not specifically teach wherein the active ingredient is a stimulant.

Davidson teaches an edible film containing a powder matrix coating where the active ingredient is a stimulant (para [0109]).

Therefore, it would have been obvious to one skilled in the ordinary art to combine the edible film as taught by Durschlag and the edible film as taught by Davidson to obtain the invention as claimed because a skilled artisan would appreciate that different ingredients and components can be included in the film compositions to provide a therapeutic or beneficial purpose.

Claims 17, 19, and 21 tack an inventive step under PCT Article 33(3) as being obvious over Davidson in view of McGinity and further in view of Durschlag.

As per claim 17, Davidson and McGinity suggest the composition of claim 16. Davidson and McGinity do not specifically teach wherein the active ingredient comprises menthol, pectin, Arnica extract, Gymnema sylvestre extract, American Ginseng extract, Glnkgo Biloba extract,

cranberry. Guarana extract, however, Durschlag teaches an edible film for delivery of an active ingredient wherein the active ingredient comprises menthol (para [0033]).
Therefore, it would have been obvious to one skilled in the ordinary art to combine the edible film for delivery of active ingredients as taught by Davidson and McGinity and the edible film for delivery of active ingredients as taught by Durschlag to obtain the invention as claimed because a skilled artisen would appreciate that film formulations can contain different ingredients and agents, and the use of a menthol in the film formulation would help said dry coat layer and similar layers are especially effective with low dose active ingredients that require a very low moisture environment to remain stable, as taught by Durschlag (para [0033]).
continued on next supplemental sheet

International application No. PCT/US 08/80362

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V.2 Citations and Explanations:

As per claim 19, Davidson and McGinity suggest the composition of claim 1. Davidson and McGinity do not specifically teach wherein the active ingredient is an electrolyte. Durschlag teaches an edible film for delivery of nutritional supplements including electrolytes ([claim 29]; para [0012], [0015]).

Therefore, it would have been obvious to one skilled in the ordinary art to combine the edible film compositions taught by Davidson and McGinity with the edible film composition containing nutritional supplements including electrolytes taught by Durschlag to obtain the invention as claimed because a skilled artisan would appreciate that active ingredients in edible films could include different therapeutic, pharmaceutical, nutritional, and herbal ingredients which would include electrolytes.

As per claim 21, Davidson and McGinity suggest the composition of claim 1. However, Davidson and McGinity do not specifically teach wherein the active ingredients are Vitamin C and Zinc or Calcium and Magnesium. Durschlag teaches edible films wherein the active ingredients are Calcium and Magnesium (para [0100] - "Combination Products—Calcium supplements are available in a dazzling array of combinations with vitamins and other minerals. While vitamin D is necessary for the absorption of calcium, it is not necessary that it be in the calcium supplement (see winter 1998 issue of Osteoporosis Report for information on vitamin D). Minerals such as magnesium and phosphorus also are important, but usually are obtained through food or multivitamins. Most experts recommend that nutrients come from a balanced diet, with multivitamins used to supplement dietary deficiencies."). Therefore, it would have been obvious to one skilled in the ordinary art to combine the edible film containing a powder matrix and coating as taught Davidson and McGinity and the edible film delivering nutritional supplements as taught by Durschlag to obtain the invention as claimed because mineral supplements can be as pharmaceutically active ingredients as taught by Davidson (para [0109]), and a skilled artisan would appreciate that minerals can be included in the films for therapeutic effect.

Claims 31-32 lack an inventive step under PCT Article 33(3) as being obvious over Davidson in view of McGinity and further in view of US 2007/0122455 A1 to Myers et al. (hereinafter "Myers").

As per claim 31, Davidson teaches making and delivering active ingredients in a edible film composition to an individual where dosing is calculated for each strip (para [0027] - "Active ingredients can be delivered in any effective state, including in a solid format, liquid format, or other format, including, for example, gets and pastes. Depending on dose levels, the active ingredients generally can be oil or water soluble. Generally, active ingredients that are stable in aqueous systems are preferred. Active ingredients that are not stable in an aqueous system, however, though not preferred, may still be used. Preferably, the dosage per serving is 1-2 strips but may vary depending on the size of the individual strip and other factors known to one skilled in the art."). Davidson and McGinity do not specifically teach a package of thin film strips according to claim 30, wherein two or more film strips are packaged together without individual packaging or wrapping, wherein the active agents do not bleed or block between the film strips, and the dosage amounts are not skewed.

1	· · · · · · · · · · · · · · · · · · ·
wrapping, wherein the a "Anti-taking agents also adhering to one another anti-tacking agents may [0103] - "It is useful to a invention. Anti-tacking a	ge of thin film strips wherein two or more film strips are packaged together without individual packaging or active agents do not bleed or block between the film strips, and the dosage amounts are not skewed (para [0105] may impart reduced film-to-film coefficient of (fiction, thereby reducing the problem of film dosage units, i.e., strips r. More specifically, in many types of film packaging, strips are stacked against one another. The incorporation of permit the individual strips to slide smoothly against one another as each unit is removed from the packaging."; add anti-tacking agents, such as tubricants, antiadherants and glidants to the film compositions of the present agents assist in the flow characteristics of the material, for example, by reducing sticking to the die in extrusion a sticking to the roof of the mouth during administration of the dosage form.").
effervescent film compostrips from sticking to or adhering to each other	been obvious to one skilled in the ordinary art to combine the edible film strips as taught by Davidson, the sition as taught by McGinity, and the packaging of thin film strips with anti-tacking agents used to prevent film ne another as taught by Myers to obtain the invention as claimed because edible film strips had a problem of causing non-uniformity of doses and other consequences, and there was a need to improve the packaging of film aget a uniform dosage out of each film strip and providing ease of use.
continued on next sur	optemental sheet
Form PCT/ISA/237 (Sup	plemental Box) (April 2007)

International application No. PCT/US 08/80362

Supplemental Box				
In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V.2 Citations and Explanations:				
As per claim 32, Myers further teaches a package of thin film strips according to claim 31, wherein each film strip comprises plasticizers (para [0119]) in a film layer in an amount ranging from about 10% to about 15% on a dry weight basis (para [0124] - "Further examples of additives are plasticizers which include polyalkylene oxides, such as polyethylene glycols, polypropylene glycols, polyethylene-propylene glycols, organic plasticizers with low molecular weights, such as glycerol, glycerol monoacetate, diacetate or triacetate, triacetin, polysorbate, cetyl alcohol, propylene glycol, sorbitol, sodium diethylsulfosuccinate, triathyl citrate, tributyl citrate, and the like, added in concentrations ranging from about 0.5% to about 30%, and desirably ranging from about 0.5% to about 20% based on the weight of the polymer."; [0122] - "Such extenders may optionally be added in any desired amount desirably within the range of up to about 80%, desirably about 3% to 50% and more desirably within the range of 3% to 20% based on the weight of all components.").				
Claims 1-32 have industrial applicability as	defined by PCT Articl	le 33(4) because the si	ubject matter can be n	nade or used by industry.
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NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:

"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume UA, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.